

SOLENOID VALVE**Abstract of the Disclosure**

A solenoid valve has a rod that pushes a ball off a valve seat when the coil is energized. The rod is distanced from the ball when the coil is deenergized, such that upon energization of the coil, the rod can gain momentum before contacting the ball, thereby more quickly pushing the ball off the valve seat against the force of fluid pressure and, thus, enabling the valve to have a quick turn-on response time. The valve housing is made integrally with a winding bay and other features are provided to avoid unduly restrictive manufacturing tolerances.